## OFE JC/OS USE OF THE TRADE HE STORY

## SEQUENCE LISTING

110> Herath, Herath Mudiyanselage Athula Chandrasiri

<120> PROTEINS, GENES AND THEIR USE FOR DIAGNOSIS AND TREATMENT OF BREAST CANCER

<130> 2543-1-032

<140> US 10/700,340

<141> 2003-11-03

<150> PCT/GB02/02022

<151> 2002-05-02

<150> GB0110790.3

<151> 2001-05-02

<150> GB0118385.4

<151> 2001-07-27

<150> GB0119791.2

<151> 2001-08-14

<150> GB0120045.0

<151> 2001-08-16

<150> GB0128062.7

<151> 2001-11-22

<160> 156

<170> PatentIn version 3.1

<210> 1

<211> 13

<212> PRT

<213> Homo sapiens

<400> 1

Ala Ala Asp Asp Thr Trp Glu Pro Phe Ala Ser Gly Lys

1

5

10

```
<210> 2
<211> 19
<212> PRT
<213> Homo sapiens
<400> 2
Ala Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Glu Glu Leu Gln
         5
                    10
                                15
Ala Asn Lys
<210> 3
<211> 10
<212> PRT
<213> Homo sapiens
<400> 3
Ala Asp Leu Ser Gly Ile Thr Gly Ala Arg
         5
                    10
<210> 4
<211> 17
<212> PRT
<213> Homo sapiens
<400> 4
Ala Glu Asp Gly Ser Val Ile Asp Tyr Glu Leu Ile Asp Gln Asp Ala
1
         5
                    10
                                15
Arg
<210> 5
<211> 13
<212> PRT
```

```
<213> Homo sapiens
<400> 5
Ala Glu Met Ala Asp Gln Ala Ala Ala Trp Leu Thr Arg
         5
                    10
<210> 6
<211> 13
<212> PRT
<213> Homo sapiens
<400> 6
Ala Phe Thr Glu Cys Cys Val Val Ala Ser Gln Leu Arg
         5
                    10
<210> 7
<211> 11
<212> PRT
<213> Homo sapiens
<400> 7
Ala Ile Gly Tyr Leu Asn Thr Gly Tyr Gln Arg
1
         5
                    10
<210> 8
<211> 9
<212> PRT
<213> Homo sapiens
<400> 8
Ala Lys Pro Ala Leu Glu Asp Leu Arg
1
         5
<210> 9
<211> 11
<212> PRT
```

```
<213> Homo sapiens
<400> 9
Ala Leu Gly His Leu Asp Leu Ser Gly Asn Arg
         5
<210> 10
<211> 16
<212> PRT
<213> Homo sapiens
<400> 10
Ala Leu Asn His Leu Pro Leu Glu Tyr Asn Ser Ala Leu Tyr Ser Arg
         5
                    10
                                15
<210> 11
<211> 12
<212> PRT
<213> Homo sapiens
<400> 11
Ala Leu Gln Asp Gln Leu Val Leu Val Ala Ala Lys
1
         5
                    10
<210> 12
<211> 10
<212> PRT
<213> Homo sapiens
<400> 12
Ala Leu Val Gln Gln Met Glu Gln Leu Arg
1
         5
                    10
<210> 13
<211> 10
<212> PRT
```

```
<213> Homo sapiens
<400> 13
Ala Pro His Gly Pro Gly Leu Ile Tyr Arg
         5
<210> 14
<211> 12
<212> PRT
<213> Homo sapiens
<400> 14
Ala Ser Ser Ile Ile Asp Glu Leu Phe Gln Asp Arg
         5
                    10
<210> 15
<211> 9
<212> PRT
<213> Homo sapiens
<400> 15
Ala Thr Val Val Tyr Gln Gly Glu Arg
         5
1
<210> 16
<211> 19
<212> PRT
<213> Homo sapiens
<400> 16
Ala Val Leu Asp Val Phe Glu Glu Gly Thr Glu Ala Ser Ala Ala Thr
1
         5
                    10
                                 15
```

Ala Val Lys

```
<210> 17
<211> 7
<212> PRT
<213> Homo sapiens
<400> 17
Ala Val Leu Tyr Asn Tyr Arg
<210> 18
<211> 9
<212> PRT
<213> Homo sapiens
<400> 18
Ala Tyr Thr Asn Phe Asp Ala Glu Arg
         5
<210> 19
<211> 15
<212> PRT
<213> Homo sapiens
<400> 19
Asp Ala Ser Gly Val Thr Phe Thr Trp Thr Pro Ser Ser Gly Lys
         5
                                15
                    10
<210> 20
<211> 11
<212> PRT
<213> Homo sapiens
<400> 20
Asp Asp Leu Tyr Val Ser Asp Ala Phe His Lys
         5
                    10
```

```
<210> 21
<211> 10
<212> PRT
<213> Homo sapiens
<400> 21
Asp Glu Pro Pro Gln Ser Pro Trp Asp Arg
         5
<210> 22
<211> 8
<212> PRT
<213> Homo sapiens
<400> 22
Asp Gly Phe Phe Gly Asn Pro Arg
         5
<210> 23
<211> 15
<212> PRT
<213> Homo sapiens
<400> 23
Asp Gly Phe Val Gln Asp Glu Gly Thr Met Phe Pro Val Gly Lys
                    10
                                15
<210> 24
<211> 10
<212> PRT
<213> Homo sapiens
<400> 24
Asp Leu His Leu Ser Asp Val Phe Leu Lys
         5
                    10
```

```
<210> 25
<211> 10
<212> PRT
<213> Homo sapiens
<400> 25
Asp Leu Leu Pro Gln Pro Asp Leu Arg
                    10
<210> 26
<211> 12
<212> PRT
<213> Homo sapiens
<400> 26
Asp Pro Thr Phe Ile Pro Ala Pro Ile Gln Ala Lys
         5
                    10
<210> 27
<211> 12
<212> PRT
<213> Homo sapiens
<400> 27
Asp Thr Gly Thr Tyr Gly Phe Leu Leu Pro Glu Arg
         5
<210> 28
<211> 14
<212> PRT
<213> Homo sapiens
<400> 28
Asp Tyr Leu Leu Val Met Glu Gly Thr Asp Asp Gly Arg
         5
```

```
<210> 29
<211> 9
<212> PRT
<213> Homo sapiens
<400> 29
Glu Phe Asp His Asn Ser Asn Ile Arg
         5
<210> 30
<211> 10
<212> PRT
<213> Homo sapiens
<400> 30
Glu Gly Met Leu Ser Ile Met Ser Tyr Arg
         5
                    10
<210> 31
<211> 9
<212> PRT
<213> Homo sapiens
<400> 31
Glu Ile Gly Glu Leu Tyr Leu Pro Lys
         5
1
<210> 32
<211> 11
<212> PRT
<213> Homo sapiens
<400> 32
Glu Ile Met Glu Asn Tyr Asn Ile Ala Leu Arg
         5
                    10
```

```
<210> 33
<211> 18
<212> PRT
<213> Homo sapiens
<400> 33
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
         5
                     10
                                 15
Glu Arg
<210> 34
<211> 17
<212> PRT
<213> Homo sapiens
<400> 34
Glu Leu Thr Thr Glu Ile Asp Asn Asn Ile Glu Gln Ile Ser Ser Tyr
1
         5
                     10
                                 15
Lys
<210> 35
<211> 16
<212> PRT
<213> Homo sapiens
<400> 35
Glu Asn Gln Leu Glu Val Leu Glu Val Ser Trp Leu His Gly Leu Lys
         5
                     10
                                 15
<210> 36
<211> 14
```

```
<213> Homo sapiens
<400> 36
Glu Gln Leu Gly Glu Phe Tyr Glu Ala Leu Asp Cys Leu Arg
                    10
<210> 37
<211> 16
<212> PRT
<213> Homo sapiens
<400> 37
Glu Gln Leu Gly Pro Val Thr Gln Glu Phe Trp Asp Asn Leu Glu Lys
                    10
                                15
<210> 38
<211> 16
<212> PRT
<213> Homo sapiens
<400> 38
Glu Gln Leu Gln Asp Met Gly Leu Val Asp Leu Phe Ser Pro Glu Lys
         5
                    10
                                 15
<210> 39
<211> 11
<212> PRT
<213> Homo sapiens
<400> 39
Glu Ser Tyr Ser Gly Val Thr Leu Asp Pro Arg
1
         5
                    10
<210> 40
<211> 12
```

```
<212> PRT
<213> Homo sapiens
<400> 40
Glu Thr Ala Ala Ser Leu Leu Gln Ala Gly Tyr Lys
                    10
<210> 41
<211> 11
<212> PRT
<213> Homo sapiens
<400> 41
Glu Thr Leu Phe Ser Val Met Pro Gly Leu Lys
<210> 42
<211> 8
<212> PRT
<213> Homo sapiens
<400> 42
Glu Thr Leu Leu Gln Asp Phe Arg
         5
<210> 43
<211> 12
<212> PRT
<213> Homo sapiens
<400> 43
Glu Val Pro Leu Asn Thr Ile Ile Phe Met Gly Arg
         5
                    10
<210> 44
<211> 12
```

```
<213> Homo sapiens
<400> 44
Glu Val Val Ala Asp Ser Val Trp Val Asp Val Lys
         5
<210> 45
<211> 12
<212> PRT
<213> Homo sapiens
<400> 45
Glu Trp Phe Trp Asp Leu Ala Thr Gly Thr Met Lys
<210> 46
<211> 9
<212> PRT
<213> Homo sapiens
<400> 46
Phe Ala His Thr Val Val Thr Ser Arg
         5
<210> 47
<211> 12
<212> PRT
<213> Homo sapiens
<400> 47
Phe Leu Val Gly Pro Asp Gly Ile Pro Ile Met Arg
                    10
<210> 48
<211> 10
```

```
<212> PRT
<213> Homo sapiens
<400> 48
Phe Pro Gly Gln Leu Asn Ala Asp Leu Arg
                    10
<210> 49
<211> 9
<212> PRT
<213> Homo sapiens
<400> 49
Phe Pro Pro Glu Glu Glu Leu Gln Arg
<210> 50
<211> 13
<212> PRT
<213> Homo sapiens
<400> 50
Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Lys
         5
                    10
<210> 51
<211> 16
<212> PRT
<213> Homo sapiens
<400> 51
Phe Ser Gly Ser Asn Ser Gly Asn Thr Ala Thr Leu Thr Ile Ser Arg
                    10
<210> 52
<211> 7
```

```
<212> PRT
<213> Homo sapiens
<400> 52
Phe Thr Phe Glu Tyr Ser Arg
<210> 53
<211> 10
<212> PRT
<213> Homo sapiens
<400> 53
Phe Val Thr Trp Ile Glu Gly Val Met Arg
<210> 54
<211> 15
<212> PRT
<213> Homo sapiens
<400> 54
Gly Asp Asp Ile Thr Met Val Leu Ile Leu Pro Lys Pro Glu Lys
         5
                    10
                                15
<210> 55
<211> 11
<212> PRT
<213> Homo sapiens
<400> 55
Gly Glu Pro Gly Asp Pro Val Asn Leu Leu Arg
         5
                    10
<210> 56
<211> 9
```

```
<213> Homo sapiens
<400> 56
Gly Phe Val Val Ala Gly Pro Ser Arg
<210> 57
<211> 8
<212> PRT
<213> Homo sapiens
<400> 57
Gly Ile Tyr Gly Thr Ile Ser Arg
<210> 58
<211> 14
<212> PRT
<213> Homo sapiens
<400> 58
Gly Gln Gly Thr Leu Ser Val Val Thr Met Tyr His Ala Lys
         5
                     10
<210> 59
<211> 13
<212> PRT
<213> Homo sapiens
<400> 59
Gly Ser Pro Ala Ile Asn Val Ala Val His Val Phe Arg
         5
                     10
<210> 60
<211> 10
```

```
<212> PRT
<213> Homo sapiens
<400> 60
Gly Tyr Ser Ile Phe Ser Tyr Ala Thr Lys
                    10
<210> 61
<211> 9
<212> PRT
<213> Homo sapiens
<400> 61
His His Gly Pro Thr Ile Thr Ala Lys
<210> 62
<211> 11
<212> PRT
<213> Homo sapiens
<400> 62
His Ser Ile Phe Thr Pro Glu Thr Asn Pro Arg
         5
                    10
<210> 63
<211> 10
<212> PRT
<213> Homo sapiens
<400> 63
His Thr Leu Asn Gln Ile Asp Glu Val Lys
                    10
<210> 64
<211> 12
```

```
<213> Homo sapiens
<400> 64
His Tyr Asp Gly Ser Tyr Ser Thr Phe Gly Glu Arg
<210> 65
<211> 9
<212> PRT
<213> Homo sapiens
<400> 65
Ile Asp Val His Leu Val Pro Asp Arg
<210> 66
<211> 11
<212> PRT
<213> Homo sapiens
<400> 66
Ile Asn His Gly Ile Leu Tyr Asp Glu Glu Lys
         5
                     10
<210> 67
<211> 14
<212> PRT
<213> Homo sapiens
<400> 67
Ile Pro Ile Glu Asp Gly Ser Gly Glu Val Val Leu Ser Arg
<210> 68
<211> 9
```

```
<212> PRT
<213> Homo sapiens
<400> 68
Ile Pro Thr Thr Phe Glu Asn Gly Arg
         5
<210> 69
<211> 10
<212> PRT
<213> Homo sapiens
<400> 69
Ile Ser Glu Gln Phe Thr Ala Met Phe Arg
         5
                    10
<210> 70
<211> 8
<212> PRT
<213> Homo sapiens
<400> 70
Ile Ser Val Ile Arg Pro Ser Lys
         5
<210> 71
<211> 11
<212> PRT
<213> Homo sapiens
<400> 71
Ile Thr Leu Leu Ser Ala Leu Val Glu Thr Arg
1
         5
                    10
<210> 72
```

<211> 9

```
<213> Homo sapiens
<400> 72
Ile Val Gln Leu Ile Gln Asp Thr Arg
1
         5
<210> 73
<211> 7
<212> PRT
<213> Homo sapiens
<400> 73
Ile Trp Asp Val Val Glu Lys
         5
<210> 74
<211> 14
<212> PRT
<213> Homo sapiens
<400> 74
Lys Ala Ala Asp Asp Thr Trp Glu Pro Phe Ala Ser Gly Lys
                    10
         5
<210> 75
<211> 10
<212> PRT
<213> Homo sapiens
<400> 75
Lys Ala Thr Val Val Tyr Gln Gly Glu Arg
         5
                    10
<210> 76
<211> 13
```

```
<213> Homo sapiens
<400> 76
Lys Val Thr Tyr Thr Ser Gln Glu Asp Leu Val Glu Lys
         5
                    10
<210> 77
<211> 10
<212> PRT
<213> Homo sapiens
<400> 77
Leu Ala Leu Asp Asn Gly Gly Leu Ala Arg
         5
<210> 78
<211> 9
<212> PRT
<213> Homo sapiens
<400> 78
Leu Glu Pro Tyr Ala Asp Gln Leu Arg
         5
<210> 79
<211> 7
<212> PRT
<213> Homo sapiens
<400> 79
Leu His Glu Leu Gln Glu Lys
         5
<210> 80
<211> 9
```

```
<213> Homo sapiens
<400> 80
Leu Leu Ile Tyr Asp Thr Ser Asn Arg
<210> 81
<211> 9
<212> PRT
<213> Homo sapiens
<400> 81
Leu Leu Ile Tyr Gly Ala Ser Ser Arg
<210> 82
<211> 9
<212> PRT
<213> Homo sapiens
<400> 82
Leu Pro Gly Ile Val Ala Glu Gly Arg
         5
<210> 83
<211> 11
<212> PRT
<213> Homo sapiens
<400> 83
Leu Pro Pro Asn Val Val Glu Glu Ser Ala Arg
         5
                    10
<210> 84
<211> 10
```

```
<212> PRT
<213> Homo sapiens
<400> 84
Leu Gln Gly Thr Leu Pro Val Glu Ala Arg
                     10
<210> 85
<211> 14
<212> PRT
<213> Homo sapiens
<400> 85
Leu Val Ala Tyr Tyr Thr Leu Ile Gly Ala Ser Gly Gln Arg
<210> 86
<211> 13
<212> PRT
<213> Homo sapiens
<400> 86
Leu Val His Val Glu Glu Pro His Thr Glu Thr Val Arg
         5
                     10
<210> 87
<211> 18
<212> PRT
<213> Homo sapiens
<400> 87
Leu Tyr Gly Ser Glu Ala Phe Ala Thr Asp Phe Gln Asp Ser Ala Ala
                     10
                                 15
```

Ala Lys

```
<210> 88
<211> 7
<212> PRT
<213> Homo sapiens
<400> 88
Asn Glu Gln Val Glu Ile Arg
         5
<210> 89
<211> 8
<212> PRT
<213> Homo sapiens
<400> 89
Asn Gly Phe Tyr Pro Ala Thr Arg
1
         5
<210> 90
<211> 11
<212> PRT
<213> Homo sapiens
<400> 90
Asn Ile Leu Thr Ser Asn Asn Ile Asp Val Lys
         5
                    10
<210> 91
<211> 15
<212> PRT
<213> Homo sapiens
<400> 91
Asn Trp Gly Leu Ser Val Tyr Ala Asp Lys Pro Glu Thr Thr Lys
1
         5
                    10
                                15
```

```
<210> 92
<211> 9
<212> PRT
<213> Homo sapiens
<400> 92
Gln Asp Gly Ser Val Asp Phe Phe Arg
         5
<210> 93
<211> 11
<212> PRT
<213> Homo sapiens
<400> 93
Gln Asp Asn Glu Ile Leu Ile Phe Trp Ser Lys
                     10
         5
<210> 94
<211> 14
<212> PRT
<213> Homo sapiens
<400> 94
Gln Glu Pro Gly Glu Asn Ser Glu Ile Leu Pro Thr Leu Lys
         5
                    10
<210> 95
<211> 17
<212> PRT
<213> Homo sapiens
<400> 95
Gln Glu Pro Ser Gln Gly Thr Thr Phe Ala Val Thr Ser Ile Leu
         5
                    10
1
                                15
```

```
Arg
```

```
<210> 96
<211> 8
<212> PRT
<213> Homo sapiens
<400> 96
Gln Ile Gln Val Ser Trp Leu Arg
<210> 97
<211> 8
<212> PRT
<213> Homo sapiens
<400> 97
Gln Leu Glu Trp Gly Leu Glu Arg
         5
<210> 98
<211> 11
<212> PRT
<213> Homo sapiens
<400> 98
Gln Leu Asn Glu Ile Asn Tyr Glu Asp His Lys
                    10
<210> 99
<211> 17
<212> PRT
<213> Homo sapiens
```

```
<400> 99
Gln Pro Phe Val Gln Gly Leu Ala Leu Tyr Thr Pro Val Val Leu Pro
                     10
         5
                                 15
Arg
<210> 100
<211> 11
<212> PRT
<213> Homo sapiens
<400> 100
Gln Pro Val Pro Gly Gln Gln Met Thr Leu Lys
1
         5
                     10
<210> 101
<211> 8
<212> PRT
<213> Homo sapiens
<400> 101
Arg Leu Trp Trp Leu Asp Leu Lys
         5
<210> 102
<211> 10
<212> PRT
<213> Homo sapiens
<400> 102
Arg Pro Tyr Phe Pro Val Ala Val Gly Lys
1
         5
                    10
```

```
<211> 12
<212> PRT
<213> Homo sapiens
<400> 103
Arg Gln Asp Asn Glu Ile Leu Ile Phe Trp Ser Lys
                    10
<210> 104
<211> 11
<212> PRT
<213> Homo sapiens
<400> 104
Arg Thr His Leu Pro Glu Val Phe Leu Ser Lys
1
         5
                    10
<210> 105
<211> 11
<212> PRT
<213> Homo sapiens
<400> 105
Arg Val Glu Pro Tyr Gly Glu Asn Phe Asn Lys
         5
                    10
<210> 106
<211> 7
<212> PRT
<213> Homo sapiens
<400> 106
Arg Val Trp Glu Leu Ser Lys
1
         5
```

```
<211> 9
<212> PRT
<213> Homo sapiens
<400> 107
Ser Ala Val Gln Gly Pro Pro Glu Arg
         5
<210> 108
<211> 9
<212> PRT
<213> Homo sapiens
<400> 108
Ser Asp Val Val Tyr Thr Asp Trp Lys
         5
<210> 109
<211> 11
<212> PRT
<213> Homo sapiens
<400> 109
Ser Glu Tyr Gly Ala Ala Leu Ala Trp Glu Lys
1
         5
                    10
<210> 110
<211> 16
<212> PRT
<213> Homo sapiens
<400> 110
Ser Gly Ala Gln Ala Thr Trp Thr Glu Leu Pro Trp Pro His Glu Lys
         5
1
                    10
                                 15
```

```
<211> 12
<212> PRT
<213> Homo sapiens
<400> 111
Ser Gly Ser Asp Glu Val Gln Val Gly Gln Gln Arg
         5
                    10
<210> 112
<211> 9
<212> PRT
<213> Homo sapiens
<400> 112
Ser Ile Pro Gln Val Ser Pro Val Arg
1
         5
<210> 113
<211> 17
<212> PRT
<213> Homo sapiens
<400> 113
Ser Leu Ala Glu Leu Gly Gly His Leu Asp Gln Gln Val Glu Glu Phe
         5
                    10
                                15
Arg
<210> 114
<211> 13
<212> PRT
<213> Homo sapiens
<400> 114
```

Ser Leu Asp Phe Thr Glu Leu Asp Val Ala Ala Glu Lys

```
1
         5
                     10
<210> 115
<211> 16
<212> PRT
<213> Homo sapiens
<400> 115
Ser Asn Leu Asp Glu Asp Ile Ile Ala Glu Glu Asn Ile Val Ser Arg
                                 15
<210> 116
<211> 16
<212> PRT
<213> Homo sapiens
<400> 116
Ser Pro Glu Gln Gln Glu Thr Val Leu Asp Gly Asn Leu Ile Ile Arg
         5
                     10
                                 15
<210> 117
<211> 12
<212> PRT
<213> Homo sapiens
<400> 117
Ser Tyr Ser Pro Tyr Asp Met Leu Glu Ser Ile Arg
         5
<210> 118
<211> 13
```

Thr Ala Thr Ser Glu Tyr Gln Thr Phe Phe Asn Pro Arg

<212> PRT

<400> 118

<213> Homo sapiens

```
1 5 10
```

<211> 12

<212> PRT

<213> Homo sapiens

<400> 119

Thr Glu Gln Trp Ser Thr Leu Pro Pro Glu Thr Lys
1 5 10

<210> 120

<211> 11

<212> PRT

<213> Homo sapiens

<400> 120

Thr His Leu Ala Pro Tyr Ser Asp Glu Leu Arg
1 5 10

<210> 121

<211> 10

<212> PRT

<213> Homo sapiens

<400> 121

Thr His Leu Pro Glu Val Phe Leu Ser Lys 1 5 10

<210> 122

<211> 12

<212> PRT

<213> Homo sapiens

<400> 122

Thr Ile Tyr Thr Pro Gly Ser Thr Val Leu Tyr Arg

1

10

<210> 123

<211> 11

<212> PRT

<213> Homo sapiens

5

<400> 123

Thr Leu Leu Pro Val Ser Lys Pro Glu Ile Arg

10

5

<210> 124

<211> 10

<212> PRT

<213> Homo sapiens

<400> 124

Thr Asn Gln Glu Leu Gln Glu Ile Asn Arg

10

5

<210> 125

<211> 11

<212> PRT

<213> Homo sapiens

<400> 125

Thr Gln Val Asn Thr Gln Ala Glu Gln Leu Arg

1 5 10

<210> 126

<211> 18

<212> PRT

<213> Homo sapiens

<400> 126

Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser Asp Glu Gln

```
1 5 10 15
```

Leu Lys

```
<210> 127
```

Val Ala Ala Gly Ala Phe Gln Gly Leu Arg

1 5 10

Val Ala Glu Gly Thr Gln Val Leu Glu Leu Pro Phe Lys

1 5 10

<210> 129

<213> Homo sapiens

5

<400> 129

Val Ala Ser Tyr Gly Val Lys Pro Arg

.

<213> Homo sapiens

```
<400> 130
Val Gly Glu Val Leu Asn Ser Ile Phe Phe Glu Leu Glu Ala Asp Glu
                    10
                                15
Arg
<210> 131
<211> 11
<212> PRT
<213> Homo sapiens
<400> 131
Val Gly Phe Tyr Glu Ser Asp Val Met Gly Arg
1
         5
                    10
<210> 132
<211> 16
<212> PRT
<213> Homo sapiens
<400> 132
Val His Gln Tyr Phe Asn Val Glu Leu Ile Gln Pro Gly Ala Val Lys
1
         5
                    10
                                15
<210> 133
<211> 9
<212> PRT
<213> Homo sapiens
<400> 133
Val Leu Phe Tyr Val Asp Ser Glu Lys
1
         5
```

```
<211> 15
<212> PRT
<213> Homo sapiens
<400> 134
Val Leu Ser Leu Ala Gln Glu Gln Val Gly Gly Ser Pro Glu Lys
         5
                    10
                                15
<210> 135
<211> 10
<212> PRT
<213> Homo sapiens
<400> 135
Val Gln Pro Tyr Leu Asp Asp Phe Gln Lys
         5
                    10
<210> 136
<211> 8
<212> PRT
<213> Homo sapiens
<400> 136
Val Arg Pro Gln Gln Leu Val Lys
         5
<210> 137
<211> 8
<212> PRT
<213> Homo sapiens
<400> 137
Val Ser Val Phe Val Pro Pro Arg
         5
```

```
<210> 138
<211> 11
<212> PRT
<213> Homo sapiens
<400> 138
Val Thr Ile Gly Leu Leu Phe Trp Asp Gly Arg
         5
                    10
<210> 139
<211> 12
<212> PRT
<213> Homo sapiens
<400> 139
Val Thr Tyr Thr Ser Gln Glu Asp Leu Val Glu Lys
         5
                    10
<210> 140
<211> 8
<212> PRT
<213> Homo sapiens
<400> 140
Val Trp Val Tyr Pro Pro Glu Lys
         5
<210> 141
<211> 13
<212> PRT
<213> Homo sapiens
<400> 141
Val Tyr Ala Tyr Tyr Asn Leu Glu Glu Ser Cys Thr Arg
         5
                    10
```

```
<210> 142
<211> 14
<212> PRT
<213> Homo sapiens
<400> 142
Trp Glu Met Pro Phe Asp Pro Gln Asp Thr His Gln Ser Arg
         5
<210> 143
<211> 9
<212> PRT
<213> Homo sapiens
<400> 143
Trp Phe Tyr Ile Ala Ser Ala Phe Arg
         5
<210> 144
<211> 10
<212> PRT
<213> Homo sapiens
<400> 144
Trp Leu Gln Gly Ser Gln Glu Leu Pro Arg
         5
                    10
<210> 145
<211> 9
<212> PRT
<213> Homo sapiens
<400> 145
Trp Gln Glu Glu Met Glu Leu Tyr Arg
```

```
<210> 146
<211> 15
<212> PRT
<213> Homo sapiens
<400> 146
Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln Trp Lys
                    10
<210> 147
<211> 7
<212> PRT
<213> Homo sapiens
<400> 147
Tyr Glu Phe Leu Asn Gly Arg
         5
<210> 148
<211> 8
<212> PRT
<213> Homo sapiens
<400> 148
Tyr Glu Asn Glu Val Ala Leu Arg
<210> 149
<211> 10
<212> PRT
<213> Homo sapiens
<400> 149
Tyr Glu Val Gln Gly Glu Val Phe Thr Lys
                    10
```

```
<210> 150
<211> 15
<212> PRT
<213> Homo sapiens
<400> 150
Tyr Glu Val Gln Gly Glu Val Phe Thr Lys Pro Gln Leu Trp Pro
         5
                    10
<210> 151
<211> 9
<212> PRT
<213> Homo sapiens
<400> 151
Tyr Gly Ile Asp Trp Ala Ser Gly Arg
         5
<210> 152
<211> 8
<212> PRT
<213> Homo sapiens
<400> 152
Tyr Leu Phe Leu Asn Gly Asn Lys
         5
<210> 153
<211> 7
<212> PRT
<213> Homo sapiens
<400> 153
Tyr Leu Thr Trp Ala Ser Arg
         5
```

```
<210> 154
<211> 7
<212> PRT
<213> Homo sapiens
<400> 154
Tyr Thr Phe Glu Leu Ser Arg
         5
<210> 155
<211> 18
<212> PRT
<213> Homo sapiens
<400> 155
Tyr Val Leu Thr Gln Pro Pro Ser Val Ser Val Ala Pro Gly Gln Thr
         5
                    10
                                15
Ala Arg
<210> 156
<211> 15
<212> PRT
<213> Homo sapiens
<400> 156
Tyr Val Thr Ser Ala Pro Met Pro Glu Pro Gln Ala Pro Gly Arg
         5
                    10
                                15
```